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## Human Neural Progenitors Secreting Glial Cell Line-Derived Neurotrophic Factor (CNS10-NPC-GDNF) for the Treatment of Amyotrophic Lateral Sclerosis

### Grant Award Details

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Human Neural Progenitors Secreting Glial Cell Line-Derived Neurotrophic Factor (CNS10-NPC-GDNF) for the Treatment of Amyotrophic Lateral Sclerosis

**Grant Type:** Clinical Trial Stage Projects

**Grant Number:** CLIN2-09284

**Project Objective:** Phase 1/2a clinical trial

**Investigator:**

<b>Name:</b>	Clive Svendsen
<b>Institution:</b>	Cedars-Sinai Medical Center
<b>Type:</b>	PI

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**Disease Focus:** Amyotrophic Lateral Sclerosis, Neurological Disorders

**Human Stem Cell Use:** Adult Stem Cell

**Award Value:** \$6,154,067

**Status:** Active

### Grant Application Details

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**Application Title:** Human Neural Progenitors Secreting Glial Cell Line-Derived Neurotrophic Factor (CNS10-NPC-GDNF) for the Treatment of Amyotrophic Lateral Sclerosis

**Public Abstract:****Therapeutic Candidate or Device**

CNS10-NPC-GDNF - a neural progenitor cell secreting GDNF

**Indication**

ALS

**Therapeutic Mechanism**

This therapy will replace damaged astrocytes. The new astrocytes will release paracrine factors. As the cells have been modified to release GDNF they will also provide this factor to dying motor neurons.

**Unmet Medical Need**

There is no treatment or cure for ALS. Thus there is a huge unmet medical need.

**Project Objective**

Phase 1/2a clinical trial

**Major Proposed Activities**

Assess clinical safety of the therapeutic product

**Statement of Benefit to California:**

ALS is a devastating disease and there are over 6,000 cases in CA. If this treatment works it will provide one of the only ways to slow down motor neuron disease progression. This illness costs the state of California millions of dollars in healthcare costs and immense suffering to those Californians affected by the disease.

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